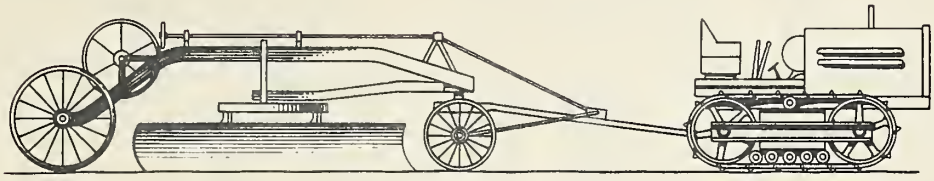
CONSTRUCTION HINTS



UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
WASHINGTON, D.C.

Volume 6 April, 1940 Number 4

The September, 1939 issue of Construction Hints contained a design of collapsible pickup seats, bows and steps. In this issue, on pages 2, 3 and 4, are shown sketches and a bill of material for truck seats, designed by Michigan State CCC personnel.

On page 5 will be found the reasons as stated by Mr. Groben, of the Washington office, for advising against the installation of wood casement sash which swing in instead of out.

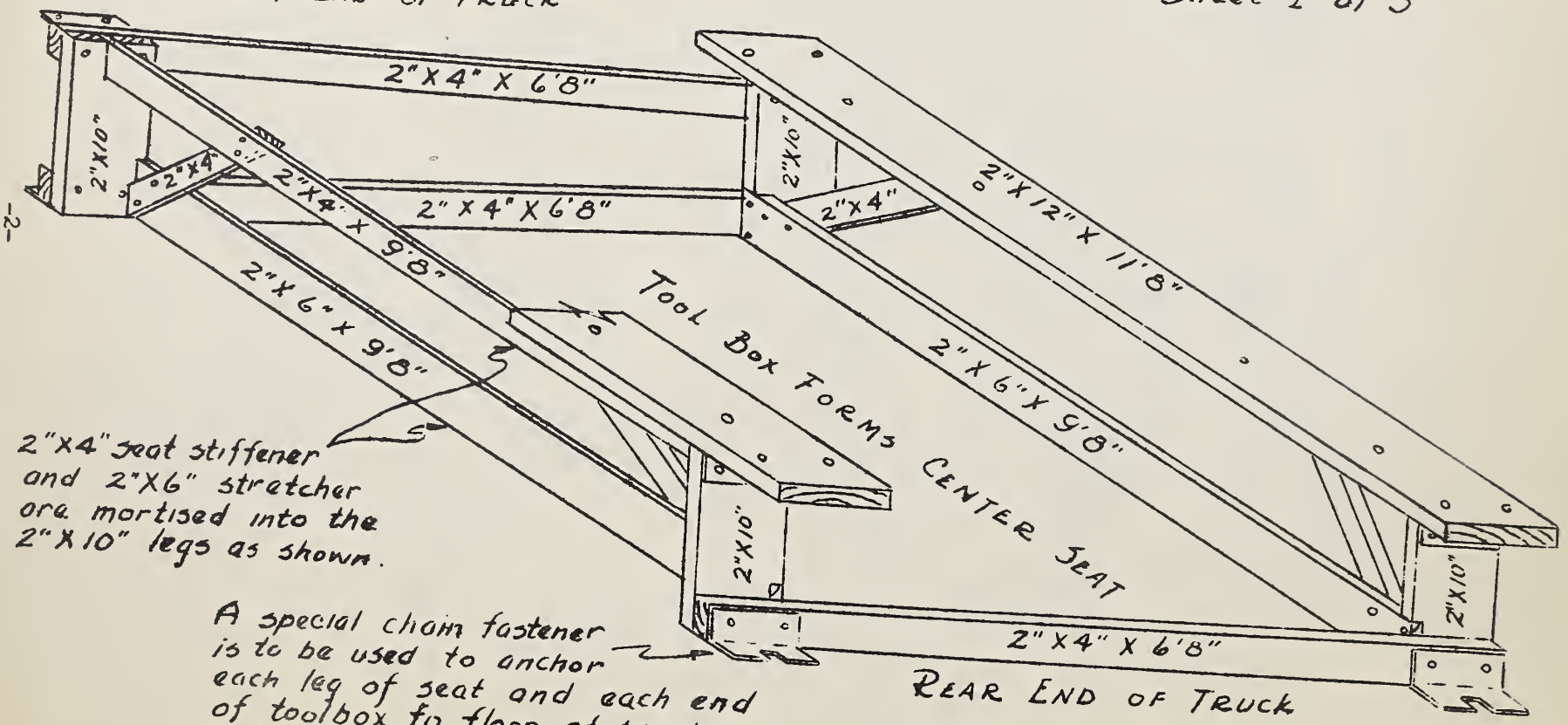
Mr. Oscar Wolford, a project assistant at Camp North Fork, F-11, Monongahela National Forest, has designed a handy and efficient clamp for holding small objects in a drill press. Mr. Burrell, the camp superintendent reports: "Not only does the use of this clamp make it easier to hold the piece firmly and securely, thereby reducing the breakage of small drills, but as the piece being drilled often turns quicky and with considerable force just as the drill breaks through, the device is useful from a safety standpoint in reducing injuries to the operator's fingers." A drawing of the clamp is shown on page 6.

E. S. MASSIE, Jr.,
Editor.

Note: Center seat to consist of tool box 24" wide 20" high, 8'0" long, equipped with hook iron and chain fastener at each end - fastener to be of same design as for truck seats. See detail of fastener on Sheet 2.

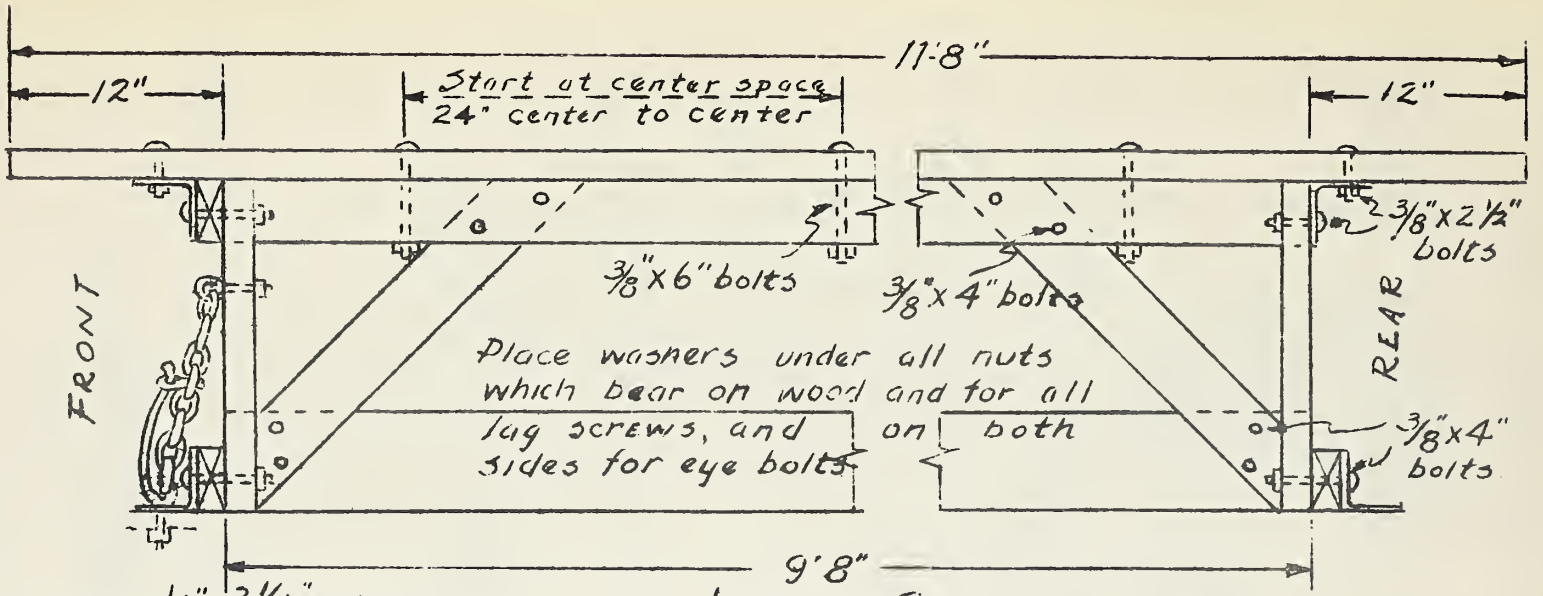
MICHIGAN STATE
C. C. C.
TRUCK SEATS
FOR LONG WHEELBASE TRUCKS

Sheet 1 of 3



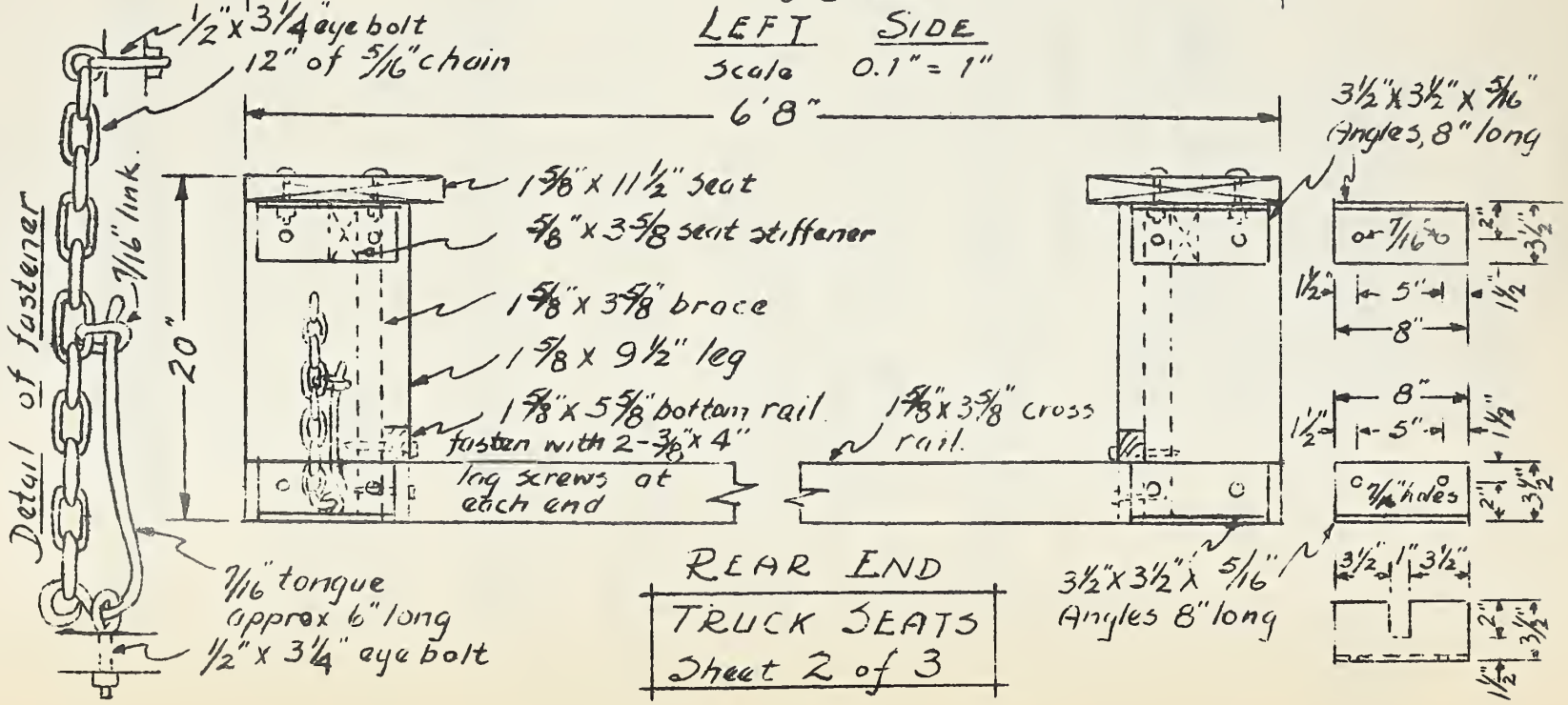
2"X4" seat stiffener and 2"X6" stretcher are mortised into the 2"X10" legs as shown.

A special chain fastener is to be used to anchor each leg of seat and each end of toolbox to floor of truck See detail on sheet 2.



LEFT SIDE

Scale 0.1" = 1"



REAR END

TRUCK SEATS

Sheet 2 of 3

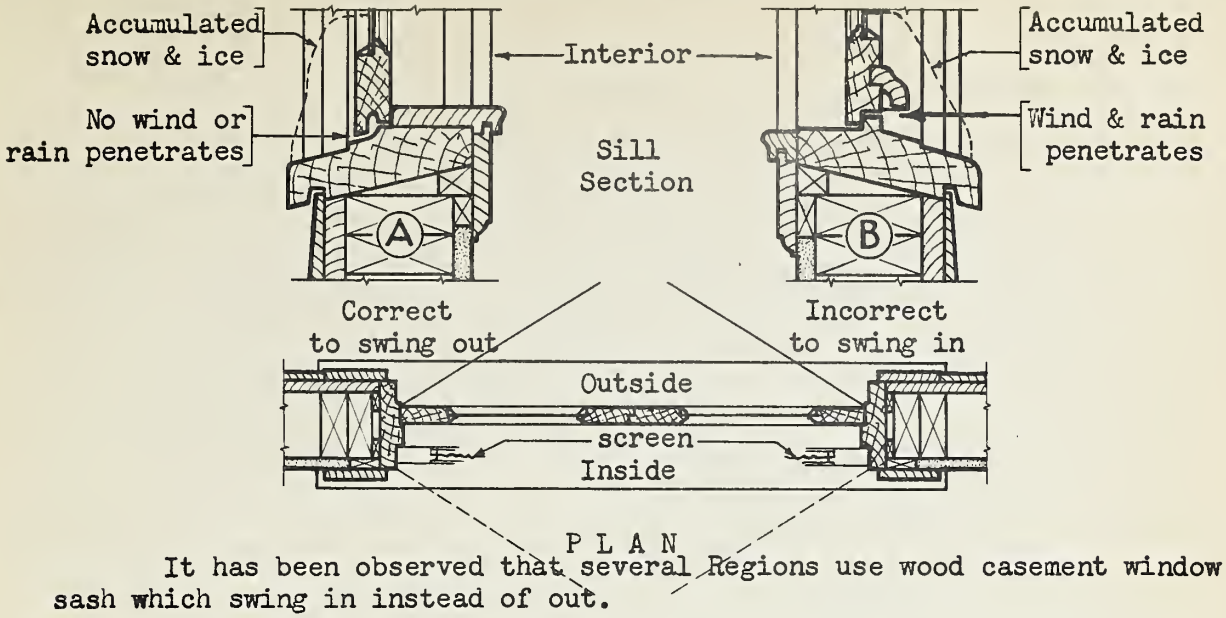
CIVILIAN CONSERVATION CORPS
Standard Bill of Materials

For Construction Of Truck Seats For One Long Wheelbase Truck.
Sheet 3 of 3 Sheets of Plans for Truck Seats.

Item	Specification and Use	Quantity	Unit	Unit Cost	Total Cost
1	2" x 12" x 12' #1 W.P. 2 Pcs. (Seats)	48	Bd.Ft.	.07	3.36
2	2" x 10" x 8' #1 W.P. 1Pc. (Legs)	14	Bd.Ft.	.07	0.98
3	2" x 6" x 10' #1 W.P. 2 Pcs. (Bottom Rails)	20	Bd.Ft.	.07	1.40
4	2" x 4" x 10' #1 W.P. 3 Pcs. (Seat Stiffeners)	20	Bd.Ft.	.07	1.40
5	2" x 4" x 8' #1 W.P. 3 Pcs. (Cross Rails)	16	Bd.Ft.	.07	1.12
6	3½" x 3½" x 5/16" Steel Angles, 10 Pcs, 8" Long weight 7.2 Lbs. per ft. (For seats and tool box)	48	Lbs.	.07	3.36
7	3/8" x 2½" Carriage Bolts (For Use where Shown)	12	Ea.	.015	.18
8	3/8" x 4" Carriage Bolts " " " "	32	Ea.	.02	.64
9	3/8" x 6" Carriage Bolts " " " "	10	Ea.	.025	.25
10	3/8" x 4" Lag or Coach Screws " " "	8	Ea.	.015	.12
11	3/8" Washers " " " "	1	Lb.	.05	.05
12	½" x 3¼" Eye Bolts (For Special Fasteners)	12	Ea.	.10	1.20
13	1/2" Washers " " "	1	Lb.	.05	.05
14	5/16" Straight Link Chain, having not more than 10 links per ft. (For Special Fasteners)	7	Lin.Ft.	.12	.84
15	7/16" Round Iron 10 Lin.Ft. (For Fastener Tongue and Links)	5.1	Lbs.	.05	.26
16	Sandpaper, Paint, Drill Bits, as required	--	--	--	--
	Total for one long wheelbase truck --				$15.21

Note: Above materials include hardware for fastening down tool box, but do not include materials for construction of tool box.

CASEMENT WINDOW SASH



It has been observed that several Regions use wood casement window sash which swing in instead of out.

Attention is called to the inadvisability of their use for the following generally conceded practical reasons:

A comparison of the sectional sill diagrams, A and B, clearly demonstrates why this is so from the standpoint of actual construction.

a. Snow and ice, accumulating upon the sill and against the sash, cannot be prevented from falling inside when the sash open in, as in Section B.

b. Heavy rains, when driven by the wind, cause leakage at the sill, Section B, in spite of the fact that the swing-in sash may have a drip or weather mold on the exterior.

c. Swing-in sash seriously interfere with window shades, venetian blinds and drapes. This difficulty is overcome in the case of the shades only by attaching them to the sash themselves; a makeshift and unsightly arrangement, especially for dwellings.

d. For both wood and metal sash which swing out, hardware, to operate either through the sill or the screen frame, is available everywhere.

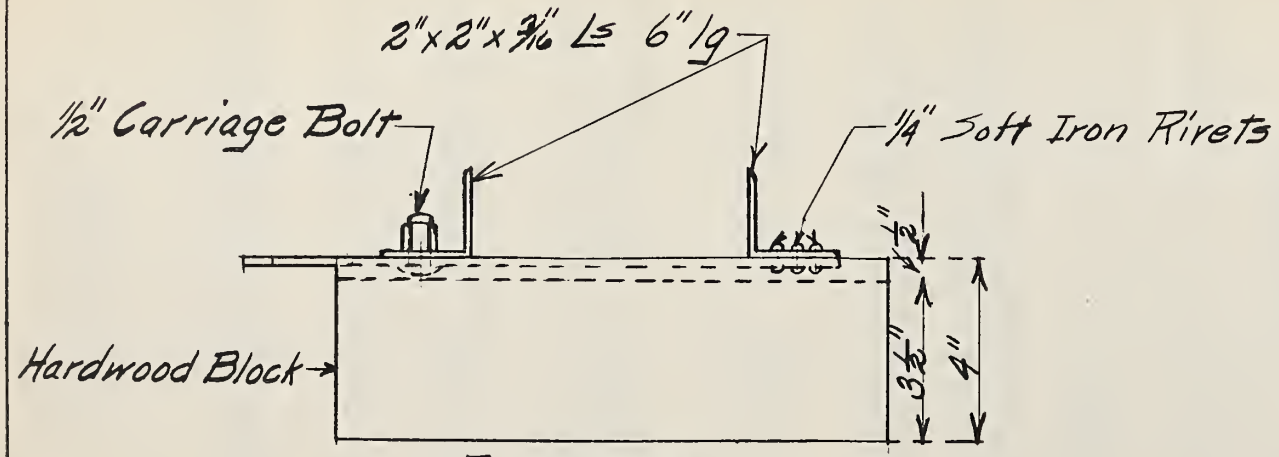
If it is claimed that the swing-out sash may be blown off the hinges by driving wind storms, the answer is to use adequate hardware of the proper type.

It is recommended that, hereafter, only casement sash which swing out, as in Diagram A, be used to avoid all these unsatisfactory conditions.

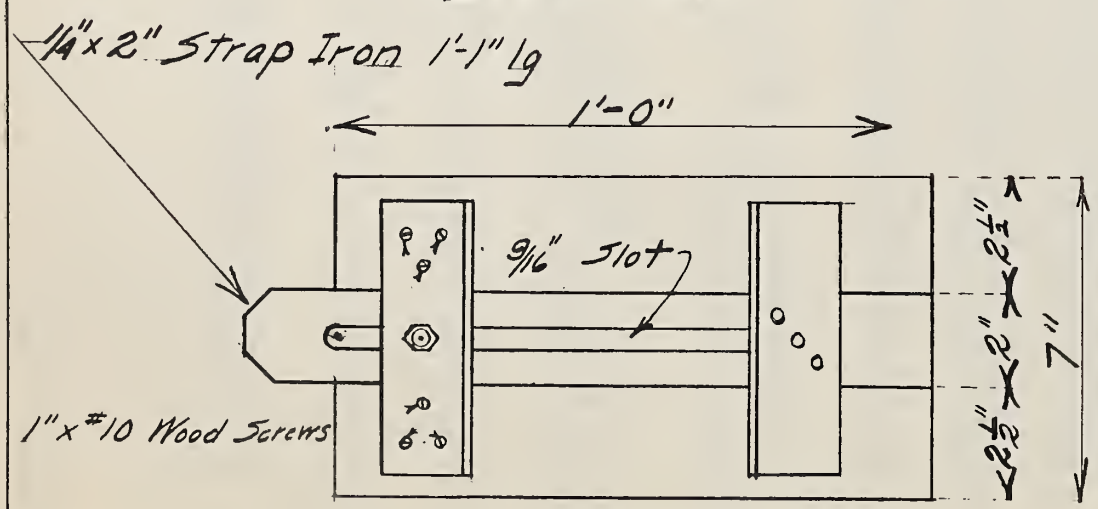
W. Ellis Groben

W. ELLIS GROBEN,
Consulting Architect.

February 28, 1940.



ELEVATION



PLAN

CLAMP FOR HOLDING SMALL PIECES IN DRILL PRESS

Camp North Fork F-11
Monongahela N.F. W.Va.
R-7
Designed by Oscar Welford